WHAT IS CLAIMED IS:

1. A pharmaceutical composition in unit dosage form
2 for both intraoral and oral administration to a patient, said
3 unit dosage form configured to be placed within the mouth of said
4 patient, which comprises:
(a) as a first portion, at least one discrete outer

(a) as a first portion, at least one discrete outer layer comprising a therapeutically effective amount of at least

- one pharmaceutically active ingredient capable of intraoral
- 8 administration; and
- 9 (b) as a second portion located within said first
- 10 portion, a therapeutically effective amount of at least one
- 11 pharmaceutically active ingredient capable of oral administration
- 13 Hafter the outer layer has disintegrated or has dissolved
- 14 intraorally.
 - 1 2. The pharmaceutical composition defined in claim 1
 - 2 in the form of a tablet or capsule. 451

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- 1 3. The pharmaceutical composition defined in claim 2
- wherein the unit dosage form is a tablet and the second portion
- of the composition is an inner core or at least one layer of a

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- multi-layer tablet, and the first portion is either an outer
 coating applied on the core or is one or more of the outer layers
 of a multi-layer tablet.
- 4. The pharmaceutical composition defined in claim 2

 wherein the unit dosage form is a capsule and the second portion

 of the composition is an uncoated capsule including the

 pharmaceutically active ingredient capable of oral administration

 on which the first portion is applied as an outer layer forming

 an outer coating.
- 5. The pharmaceutical composition defined in claim 3

 Wherein the outer coating is a film coat that is applied as a

 Jlayer to the inner core
- 6. The pharmaceutical composition defined in claim 3
 wherein the outer coating is a compression coat that is
 compressed around the inner core.
- The pharmaceutical composition defined in claim 5
 wherein the film coat comprises the at least one pharmaceutically
 active ingredient capable of intraoral administration and at
 least one pharmaceutically acceptable coating polymer selected

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from the group consisting of cellulose, hydroxypropyl
methylcellulose, methyl cellulose, polyvinylpyrrolidone, and
polyethylene glycol, a pharmaceutically acceptable plasticizer, a
pharmaceutically acceptable glidant and a pharmaceutically
acceptable colorant.

8. The pharmaceutical composition defined in claim 6 higherein the compression coat comprises the at least one

- 3 pharmaceutically active ingredient capable of intraoral
- 4 administration and at least one pharmaceutically acceptable
- 5 descriptent for intradral administration of the pharmaceutically
- 6 active ingredient.

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9. The pharmaceutical composition defined in claim 6

- 2 wherein the compression coat comprises the at least one
- 3 pharmaceutically active ingredient capable of intraoral
- 4 administration formulated\in a pharmaceutically acceptable
- 5 effervescent agent which generates effervescence when contacted
- 6 with salivary fluid.

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1 10. The pharmaceutical composition defined in claim 3
2 wherein the first portion comprises one or two outer layers each
3 comprising a therapeutically effective amount of at least one

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4 pharmaceutically active ingredient capable of intraoral

5 administration and one or more pharmaceutically acceptable

excipients for intraoral administration of the pharmaceutically active ingredient capable of intraoral administration.

11. The pharmaceutical composition defined in claim 3 wherein the outer layer of the multi-layer tablet is formulated

3 with a pharmaceutically acceptable effervescent agent which

1 12. The pharmaceutical composition defined in claim 7

2 wherein the film coat further comprises a pharmaceutically

3 Macceptable flavoring agent.

wherein the inner core is an immediate drug release tablet

comprising the pharmaceutically active ingredient capable of oral administration and at least one pharmaceutically acceptable excipient for oral administration of the pharmaceutically active

(ingredient capable of oral administration.

1 14. The pharmaceutical composition defined in claim 3

wherein the inner code is in a configuration which provides

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3 sustained telease of the pharmaceutically active ingredient

4 capable of dral administration and which further provides an

5 immediate drug release layer tablet comprising the

6 pharmaceutically active ingredient capable of oral administration

and at least one pharmaceutically acceptable excipient for oral

8 administration of the pharmaceutically active ingredient capable

of oral administration.

15. The pharmaceutical composition defined in claim 3

2 wherein the second portion is the at least one layer of the

3 multi-layer tablet comprising the pharmaceutically active

4 __ingredient capable of oral administration and which is an

5 Jimmediate drug release layer.

1 4 16. The pharmaceutical composition defined in claim 3

wherein the second portion is the at least one inner layer and

3 provides sustained release of the pharmaceutically active

4 ingredient suitable for oral administration over a period of 0.5

5 to 24 hours.

1 17. The pharmaceutical domposition defined in claim 3

wherein a delayed release coating covers the inner core and

3 comprises the second portion of the composition and then the

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first portion of the composition is an outer layer over the delayed release coating to delay release of the pharmaceutically active ingredient capable of oral administration for a period of 0.5 to 12 hours.

The pharmaceutical composition defined in claim 17 1 wherein the delayed release coating comprises one or more 2 pharmaceutically acceptable polymer selected from the group 3 consisting of methyl cellulose, hydroxypropyl cellulose, 4 hydroxyethyl cellulose, hydroxymethyl cellulose, hydroxypropyl 5 methyl cellulose acetate succinate, ethyl cellulose, cellulose 6 acetate phthalate, hydrox propyl methylcellulose phthalate, cellulose acetate trimellitate, carboxymethylcellulose sodium, 8 Jacrylic acid polymers and copolymers, polymers or copolymers of 9 methacrylic acid, methyl acrylate, ethyl acrylate, methyl 10 methacrylate, ethyl methacrylate, vinyl acetate, vinyl acetate 11 phthalate, or an azo compound, polyvixyl pyrrolidone, pectin, 12 amylose, shellac, zein, and guar gum. 13

19. The pharmaceutical composition defined in claim 3 wherein the inner core or a layer of the multi-layer tablet core is chewable and comprises at least one pharmaceutically

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flavoring agent

acceptable excipient suitable for a chewable medication and a

The pharmaceutical composition defined in claim 4 1 wherein the film coat comprises the pharmaceutically active 2 ingredient capable of intraoral administration and at least one 3 pharmaceutically acceptable coating polymer selected from the 4 group consisting of cellulose, hydroxypropyl methylcellulose, 5 methyl cellulose, polyvinylpyrrolidone, and polyethylene glycol, 6 a pharmaceutically acceptable plasticizer, a pharmaceutically 7 acceptable glidant, a pharmaceutically acceptable colorant, and 8 poptionally a pharmaceutically acceptable flavoring agent.

wherein the second portion of the composition is a capsule containing the pharmaceutically active ingredient capable of oral administration and a pharmaceutically acceptable excipient for sustained release of the pharmaceutically active ingredient suitable for oral administration to provide a sustained release effect of the pharmaceutically active ingredient for 0.5 to 24 hours

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22. The pharmaceutical composition defined in claim 1
wherein the outer layer disintegrates or dissolves within 10
minutes permitting release of the pharmaceutically active
ingredient capable of intraoral administration, when the
composition is contacted with saliva during intraoral
administration.

wherein the second part of the composition containing the pharmaceutically active ingredient capable of oral administration remains intact until the intraoral administration of the pharmaceutically active ingredient capable of intraoral administration has been completed.

24. The pharmaceutical composition defined in claim 22 wherein the outer layer disintegrates immediately to allow a rapid intraoral mucosal absorption of the pharmaceutically active ingredient capable of intraoral administration released from the outer layer.

25. The pharmaceutical composition defined in claim 1 which further comprises a pharmaceutically acceptable signalling system located between the first portion and second portion of

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4 the composition, within the first portion of the composition or

5 within the second portion of the composition and that is

6 detectable by the patient upon substantial release of the

pharmaceutically active ingredient capable of intraoral

8 administration during intraoral administration thereby informing

the patient that it is time to orally ingest the remaining second

part of the composition containing the pharmaceutically active

ingredient capable of oral administration.

26. The pharmaceutical composition defined in claim 1

2 wherein the pharmaceutically active ingredient capable of

intraoral administration has a first pass metabolism which is

avoided by intraoral administration.

1 27. The pharmaceutical composition defined in claim 1

wherein the pharmaceutically active ingredient capable of

3 intraoral administration has a rapid onset of desired therapeutic

4 effect through intraoral absorption.

1 28. The pharmaceutical composition defined in claim 1

wherein the pharmaceutically active ingredient capable of

3 intraoral administration is selected from the group consisting of

4 analgesics, antihistamines, antidiarrheals, anxiolytics,

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rugs.

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5	hypnotics, stimulants, cardiovascular drugs, pulmonary drugs,
6	anti-hypertensives, anti-emetics, anti-inflammatory drugs, renal
7	drugs, steroids, drugs for neurological disorders, anti-psychotic
8	drugs, drugs for treating endocrine disorders, drugs for
9	promoting immunology, drugs for treating ostewarthritis, drugs
0	for treating glaucoma, drugs for treating allergic rhinitis,
1 (drugs for treating anemias and other hematological disorders,
2	drugs for treating infectious diseases, drugs for the treatment
3\	and symptoms of cancer, drugs for insomnia, and antidiabetic

- 29. A process for the preparation of a pharmaceutical composition in unit dosage form as a tablet or capsule for both intraoral and oral administration to a patient, said pharmaceutical composition placed within the mouth of said patient, which comprises:
 - (a) as a first portion, at least one discrete outer layer comprising a therapeutically effective amount of at least one pharmaceutically active ingredient capable of intraoral administration; and
- 10 (b) as a second portion located within said first
 11 portion, a therapeutically effective amount of at least one
 12 pharmaceutically active ingredient capable of oral administration

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and which is releasable and orally ingestible by the patient · 13 after the at least one outer layer has disintegrated or has 14 dissolved within the patient's mouth which comprises the steps 15 af: 161 (i) providing the second portion as an inner tablet ore or as at least one layer of a multi-layer tablet core or as an uncoated capsule; and 19 ij (ii) applying the first portion as an outer layer or as 20 O several outer layers forming an outer coating on the first 21 22. portion. J A method of administering a pharmaceutical 1 composition in unit dosage form as a tablet or capsule for both intraoral and oral administration to a patient, which comprises: 3 (a) as\a first portion, a discrete outer layer 4 comprising a therapeutically effective amount of at least one 5 pharmaceutically active ingredient capable of intraoral 6 administration which provides a rapid onset of a desired 7 therapeutic effect; and 8 (b) \as a second portion located within said first 9 portion, a therapeutically effective amount of at least one 10

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pharmaceutically active \ingredient capable of oral administration

and which is releasable and orally ingestible by the patient

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after the outer layer has disintegrated or has dissolved under 13 the patient's tongue or elsewhere within the patient's mouth, 14 which comprises the steps of: 15 (i) placing the pharmaceutical composition under the 16 tongue, against the \inner wall of the cheek or the upper or lower 17 vestibular layer or elsewhere within the mouth of said patient; 18 (ii) retaining the pharmaceutical composition under the 19 tongue or against the inner wall of the cheek or the upper or 20 Blower vestibular area or\elsewhere within the mouth of the 21 patient until the first portion of the pharmaceutical composition 22 containing the pharmaceutically active ingredient capable of 23 intraoral administration has dissolved or has disintegrated 24 thereby substantially releasing the pharmaceutically active 25 ingredient capable of intraoral administration; and 26 (iii) following step \((ii) swallowing whole or chewing 27 and swallowing the second portion of the pharmaceutical 28 composition. presence or absent 29

The method of administering a pharmaceutical 31. composition defined in claim 30 whetein the pharmaceutical composition further comprises a pharmaceutically acceptable signalling system located between the first portion and second portion of the composition, within the first portion of the

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composition or within the second portion of the composition and which following step (ii) further comprises the step of relating 7 a signal from the signalling system to indicate to the patient 8 substantial release of the pharmaceutically active ingredient 9 capable of intractal administration during intraoral 10 administration in step (ii) thereby informing the patient that it 11 is time to orally ingest the remaining second part of the 12 composition containing the pharmaceutically active ingredient 13 capable of oral administration according to step (iii). 14

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